# CogniKids

## Learning Disabilities

### Support Program

# Program Vision

The Learning Disabilities Support Program is a structured, compassionate, and evidence-based pathway designed for children who have neurological learning disabilities such as dyslexia, dysgraphia, dyscalculia, language-based learning disabilities, and related processing disorders. These children are intelligent, capable, and creative—yet they learn differently and require specialised methods tailored to the way their brains process information.

The program embraces neurodiversity. It is designed to build skills, confidence, and independence through multi-sensory instruction, visual supports, explicit teaching, and step-by-step cognitive scaffolding. Using the platform's combination of visual learning tools, audio prompts, structured routines, and interactive activities, the program ensures that children with learning disabilities can learn at their own pace in a predictable, emotionally safe environment.

## Program Overview

Learning disabilities are lifelong, so the goal is not to "fix" the child, but to **equip them with the tools, strategies, and supports** that allow them to succeed academically and in daily life. This program targets:

- Reading accuracy, fluency, and comprehension
- Spelling, writing, and language expression
- Number sense and mathematical reasoning
- Working memory, processing speed, and attention
- Sequencing, organisation, and problem-solving
- Academic confidence and self-belief

The approach is holistic, structured, and deeply supportive. All activities are designed to reduce cognitive load, reinforce learning through multiple sensory channels, and help children experience success consistently.

# Core Components of the Program

**1. Structured Literacy for Dyslexia and Language-Based Learning Disabilities**

Children receive systematic, explicit, and cumulative instruction in:

- Phonological and phonemic awareness
- Sound–symbol associations
- Reading fluency practice
- High-frequency sight words
- Comprehension through visual scaffolds

The platform's audio playback, highlighting, and step-by-step guidance make structured literacy strategies accessible, repeatable, and stress-free.

**2. Multi-Sensory Writing and Spelling for Dysgraphia**

This includes:

- Visual letter formation models
- Colour-coded cues
- Sentence structures
- Dictation with audio repeats
- Gradual release from supported to independent progress

The approach supports the **language-processing** challenges associated with writing disabilities.

**3. Numeracy Intervention for Dyscalculia**

Children learn using visual and hands-on supports:

- Number lines
- Strategy-based calculations
- Step-by-step problem solving
- Pattern recognition and sequencing
- Real-world math applications

This reduces overwhelm and supports concrete-to-abstract understanding.

**4. Language Processing and Comprehension Support**

Designed for children with receptive or expressive language disabilities, activities include:

- Visual story sequencing
- Sentence ordering
- Picture-supported vocabulary building
- Audio-enhanced comprehension tasks
- Repeated exposure for mastery

Each task supports processing speed, receptive understanding, and expressive clarity.

## 5. Working Memory and Processing Speed Support Tools

Learning disabilities often involve significant memory and speed challenges. The platform strengthens:

- **Working memory** through chunked tasks, repetition, verbal rehearsal
- **Short-term memory** through matching, recall, and step-following tasks
- **Long-term memory** through spaced practice and cumulative review
- **Processing speed** by reducing cognitive load and allowing self-paced repetition

Visual task lists and audio controls give children agency and reduce frustration.

## 6. Executive Function Support (Organisation, Sequencing, Planning)

Many children with learning disabilities struggle to organise thoughts or tasks. The program embeds:

- Visual schedules
- Step-by-step task analysis
- Sorting, categorising, and grouping tasks
- Graphic organisers
- Predictable routines
- Guided planning and sequencing activities

This supports problem-solving and helps children complete tasks independently.

## 7. Confidence, Motivation, and Emotional Resilience

Children with learning disabilities often internalise shame, frustration, or the belief that they are "not smart."

This program changes that narrative by:

- Celebrating strengths
- Showing progress through meaningful, visible wins
- Giving immediate positive feedback
- Ensuring each activity leads to achievable success

The learning experience becomes empowering, predictable, and emotionally safe.

# Challenges We Address

### 1. Dyslexia and Reading Disabilities

Children may reverse letters, struggle with decoding, or read with low fluency.

**Our Response:**

- Multi-sensory structured literacy
- Repetition without pressure
- Visual and auditory reinforcement

### 2. Dysgraphia and Written Expression Disabilities

Children may have poor difficulty spelling, or trouble forming sentences.

**Our Response:**

- Audio-supported spelling practice

### 3. Dyscalculia and Math Disabilities

Children may struggle with number sense, calculations, and problem-solving.

**Our Response:**

- Visual models and concrete representations
- Step-by-step breakdown of problems
- Pattern and sequencing tasks
- Strategy-based learning
- Repetitive but meaningful practice

### 4. Slow Processing Speed

Children may need extra time to think, respond, or complete tasks.

**Our Response:**

- Self-paced audio
- Chunked instructions
- Reduced cognitive load
- Visual cues to reduce working memory strain
- Consistent routines

**5. Working Memory Weakness**

Children may forget instructions, steps, or previously learned knowledge
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**Our Response:**

- Repetition
- Chunked tasks
- Memory-based games
- Scaffolding and guided practice

**6. Low Academic Confidence**

Children may feel anxious, ashamed, or discouraged.

**Our Response:**

- Strength-based teaching
- Predictable success routines
- Visible progress tracking
- Gentle, encouraging corrections
- Activities designed for achievable mastery